

Amendments to the Claims

1. (Currently amended) A method for multicast document printing, the method comprising:
 - receiving document data to be printed at a host, wherein said document data includes a number of copies of a document to be created from the document data;
 - allocating a subset of the number of copies to each of at least two corresponding, separate printers;
 - formatting the document data into a print job;
 - embedding instructions specific to each of the corresponding printers into the print job to form an entire print job, the instructions indicating for each of the corresponding printers the allocated subset of copies to be printed by that printer;
 - multicasting the entire print job to the at least two separate printers connected by a common network to the host; and
 - each of the at least two separate printers receiving the entire print job and the entire print job comprising routing information comprising a list of printer identifiers and ~~the~~ an assigned number of documents for each printer[.];
 - wherein multicasting the entire print job to the at least two separate printers includes transmitting the entire print job from the host to a store-and-forward device residing on the network for reception and temporary storage at the store-and-forward device and forwarding by the store-and-forward device to the at least two separate printers.
2. (Original) The method of claim 1, wherein the host is a printer.
3. (Original) The method of claim 1, wherein the host is application software resident in a printer.

4. (Original) The method of claim 1, wherein the host is a computer.
5. (Original) The method of claim 1, wherein the host is a scanner.
6. (Original) The method of claim 2, wherein the printer further comprises a multi-function peripheral.
7. (Original) The method of claim 2, wherein the printer further comprises a copier.
8. (Original) The method of claim 2, wherein the printer further comprises a fax machine.
9. (Cancelled)
10. (Currently amended) A computer readable medium, said medium containing software code comprising:
 - code operable to receive document data to be printed at a host, wherein said document data includes a number of copies of a document to be created from the document data;
 - code operable to divide the number of copies to be created into at least two batches for at least two corresponding, separate printers;
 - code operable to format the document data into a print job;
 - code operable to embed instructions specific to each of the corresponding printers into the joint print job to form an entire print job, the instructions indicating for each of the corresponding printers ~~the~~ a number of copies to be printed by that printer; and

code operable to request multicast transmission of the entire print job to the at least two separate printers connected by a common network to the host[.];

code operable to multicast the entire print job to the at least two separate printers including transmitting the entire print job from the host to a store-and-forward device residing on the common network for reception and temporary storage at the store-and-forward device and forwarding by the store-and-forward device to the at least two separate printers.

11. (Original) The medium of claim 10, wherein the computer readable medium is read by a computer.

12. (Original) The medium of claim 10, wherein the computer readable medium is read by a printer.

13. (Original) The medium of claim 10, wherein the medium is a diskette.

14. (Original) The medium of claim 10, wherein the medium is a compact disc.

15. (Original) The medium of claim 10, wherein the medium is a network-accessible file.

16. (Currently amended) A network device, comprising:

a port operable to connect to a network and receiving document data to be converted into hard copy output with a predetermined number of copies of a document to be created;

a processor in communication with the port, operable to format the document data into [[a]] an entire print job comprising a document and instructions to at least two printers

assigning a number of copies of the document to each of the at least two printers, wherein the a sum of copies to be created by the at least two printers is substantially equal to the predetermined number of copies to be created; and

a communications port operable to multicast the entire print job to the at least two printers connected to the network device by a common network[.];

wherein the communications port is also operable to transmit the entire print job from the communications port to a store-and-forward device residing on the network for reception and temporary storage at the store-and-forward device and forwarding by the store-and-forward device to the at least two separate printers.

17. (Original) The network device of claim 16, wherein the network device is a computer.

18. (Original) The network device of claim 16, wherein the network device is a printer.

19. (Original) The network device of claim 16, wherein the processor is a raster image processor.

20. (Currently amended) A document printing method comprising:

formatting [[a]] an entire print job comprising a document to be printed and instructions specific to each of at least two printers to each print one or more copies of the document;

multicasting the entire print job over a network coupled to each of the at least two printers[.];

wherein multicasting the entire print job to the at least two separate printers includes transmitting the entire print job from the host to a store-and-forward device residing on the

network for reception and temporary storage at the store-and-forward device and forwarding by the store-and-forward device to the at least two separate printers.

21. (Currently amended) The method of claim 20, further comprising receiving the entire print job at one of the at least two printers, locating the instructions specific to that printer within the entire print job, and printing the a number of copies specified in the specific instructions.

22. (Currently amended) A document printing method comprising:

receiving a multicast network transmission at a networked printer from a store-and-forward device residing on the network;

determining whether the multicast network transmission contains [[a]] an entire print job; and

when the multicast network transmission contains [[a]] an entire print job, locating instructions specific to the networked printer in the entire print job and printing at least one copy of a document contained in the entire print job according to the instructions.